

# Isophthalic acid, 4-chloro-3-methylphenyl pentyl ester

Inchi:	InChI=1S/C20H21ClO4/c1-3-4-5-11-24-19(22)15-7-6-8-16(13-15)20(23)25-17-9-10-18(2
InchiKey:	UTFKHQRZPUTQDH-UHFFFAOYSA-N
Formula:	C20H21ClO4
SMILES:	CCCCCOC(=O)c1cccc(C(=O)Oc2ccc(Cl)c(C)c2)c1
Mol. weight [g/mol]:	360.83

## Physical Properties

Property code	Value	Unit	Source
gf	-166.32	kJ/mol	Joback Method
hf	-522.82	kJ/mol	Joback Method
hfus	44.24	kJ/mol	Joback Method
hvap	89.35	kJ/mol	Joback Method
log10ws	-6.64		Crippen Method
logp	5.215		Crippen Method
mvol	272.260	ml/mol	McGowan Method
pc	1644.42	kPa	Joback Method
rinpol	2895.00		NIST Webbook
rinpol	2895.00		NIST Webbook
tb	915.31	K	Joback Method
tc	1144.16	K	Joback Method
tf	579.80	K	Joback Method
vc	1.036	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	802.07	J/molxK	915.31	Joback Method
cpg	852.38	J/molxK	1106.02	Joback Method
cpg	844.79	J/molxK	1067.88	Joback Method
cpg	836.00	J/molxK	1029.74	Joback Method
cpg	825.96	J/molxK	991.59	Joback Method
cpg	814.66	J/molxK	953.45	Joback Method
cpg	858.78	J/molxK	1144.16	Joback Method
dvisc	0.0000505	Paxs	915.31	Joback Method

dvisc	0.0000625	Paxs	859.39	Joback Method
dvisc	0.0000798	Paxs	803.47	Joback Method
dvisc	0.0001057	Paxs	747.56	Joback Method
dvisc	0.0001464	Paxs	691.64	Joback Method
dvisc	0.0002149	Paxs	635.72	Joback Method
dvisc	0.0003394	Paxs	579.80	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344592&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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